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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,899	06/23/2003	Shaoning Wan	1-19-10	7551
7590 02/09/2006			EXAMINER	
Werner Ulrich			LA, NICHOLAS T	
434 Maple St			ART UNIT	PAPER NUMBER
Glen Ellyn, IL	60137		2687	TATER NOMBER
			DATE MAILED: 02/09/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/601,899	WAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Nicholas T. La	2687			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period or Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 23 June 2003.					
·—	•				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-14 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 23 June 2003 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.)⊠ accepted or b)□ objected to drawing(s) be held in abeyance. Sec tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D	ate			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 5-8, 10, 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rangarajan et al.(US Pub. No. 2003/0050075) in view of Sawyer (International Pub. No. WO 00/51365).

Regarding **claims 1, 8**, Rangarajan et al. discloses a system and method for determining a location relevant to a communication device and/or its associated user. Rangarajan et al. further discloses a method in a mobile telecommunications network, a method of determining an approximate location of a mobile station (paragraph [0011]-[0012]), comprising the steps of:

sending a request to said mobile telecommunications network to determine a location of a target mobile station (paragraph [0025]);

responsive to receipt of said request, said mobile telecommunications network identifying a base station (base station's cell; paragraph [0011], [0025]) and sector currently serving said mobile station (paragraph [0011], [0025]);

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said mobile telecommunications network transmitting data for identifying said base station (base station's cell; paragraph [0011], [0025]) and sector (paragraph [0011], [0025]), and data for identifying at least one of a country, a vendor, a region, and a service provider of that base station (Figure 2, 3; paragraph [0014], [0030]-[0031], [0053]-[0055]);

in a database (Figure 2; paragraph [0030]-[0031]), translating between said data for identifying said base station (cell) and sector (paragraph [0011], [0025], [0031]-[0032]), and said data for identifying at least one of a country, a vendor, a region, and a service provider of said base station (Figure 2, 3; paragraph [0014], [0030]-[0031], [0053]-[0055]);

However, Rangarajan et al. did not disclose a method, wherein in a database, translating between said data for identifying said base station and sector, and said data for identifying at least one of a country, a vendor, a region, and a service provider of said base station to obtain identification in a standard format of said base station and sector; and

translating from said identification in <u>a standard format</u> of said base station and sector to a geographic location of said base station and sector.

In an analogous art, Sawyer discloses a geographical information for location-based service. Sawyer further discloses a method, wherein obtain identification in <u>a standard format</u> of said base station and sector (page 4, line 15 to page 5, line 12); and

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translating from said identification in <u>a standard format</u> of said base station and sector to a geographic location of said base station and sector (page 5, line 2 to 12).

Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to modify Rangarajan et al. location information database to include the implementation of a standard format such as taught by Sawyer in order to allow the system to employ inter-operate ability, providing inter-system handoffs, call delivery, validation and authentication features.

Regarding **claims 3, 10**, Rangarajan et al. further discloses a method, wherein said data for identifying at least one of a country, a vendor, a region and a service provider consists of data for identifying a country (paragraph [0030]-[0034], [0053]-[0056]).

Regarding **claims 5, 12**, Rangarajan et al. further discloses a method, wherein said data for identifying at least one of a country, a vendor, a region and a service provider consists of data for identifying a vendor (base station's cell/cell ID) (paragraph [0011], [0025], [0034]).

Regarding **claims 6, 13**, Rangarajan et al. further discloses a method, wherein said data for identifying at least one of a country, a vendor, a region and a service provider consists of data for identifying a country and region (paragraph [0034]).

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Regarding **claims 7, 14**, Rangarajan et al. further discloses a method, wherein said data for identifying at least one of a country, a vendor, a region and a service provider consists of data for identifying a region (paragraph [0034]).

2) Claims 2, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rangarajan et al.(US Pub. No. 2003/0050075) in view of Sawyer (International Pub. No. WO 00/51365) and further in view of Kokkonen et al. (US Pub. No. 2005/0032532).

Regarding claims 2, 9, Rangarajan et al. and Sawyer disclose a method to approximate location of a mobile station in a mobile telecommunication network. However, Rangarajan et al. and Sawyer did not disclose a method of authenticating whether said request comes from a source authorized to make the request. In an analogous art, Kokkonen et al. discloses a method for the provision of location information. Kokkonen et al. further discloses a method of authenticating whether said request comes from a source authorized to make the request (Figure 1, 2, 3; paragraph [0018]-[0020]). Therefore, it would have been obvious to one skill in the art at the time of the invention was made to modify Rangarajan et al. and Sawyer method to approximate location of a mobile station in a mobile telecommunication network to include a method of authenticating whether said request comes from a source authorized to make the request such as taught by Kokkonen et al. in order to allow a target user to select authorized

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requesting user to receive his/her location information as well as preventing provision of location information to unwanted requesters.

3) Claims 4, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rangarajan et al.(US Pub. No. 2003/0050075) in view of Sawyer (International Pub. No. WO 00/51365) and further in view of Nelson (US Patent No. 6,470,182).

Regarding claims 4, 11, Rangarajan et al. and Sawyer disclose a method to approximate location of a mobile station in a mobile telecommunication network. However, Rangarajan et al. and Sawyer did not disclose a method, wherein said data for identifying at least one of a country, a vendor, a region and a service provider consists of data for identifying a service provider. In an analogous art, Nelson discloses a mobile station roaming in a multiple service provider area. Nelson further discloses a method of said data for identifying at least one of a country, a vendor, a region and a service provider consists of data for identifying a service provider (col. 3, line 5 to 23, col. 5, line 44 to 57). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to modify Rangarajan et al. and Sawyer method to approximate location of a mobile station in a mobile telecommunication network to include a method of said data for identifying at least one of a country, a vendor, a region and a service provider consists of data for identifying a service provider such as taught by Nelson in order to notify the user of the terminal

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whether he/she is in a home area or extended/roaming area hence he/she would be able save money by not making calls in extended area.

Reference Cited

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sawada et al. (US Patent No. 6,909,902) discloses a radio base station equipment and mobile station equipment determining location of mobile station by associating with another radio base station or mobile station in a mobile communication system.

Muhonen et al. (US Pub. No. 2003/0186710) discloses a service provision in a communication system.

Ogasawara (US Patent 6,947,754) discloses a location registration method, information distribution method, mobile communication network and mobile communication terminal.

Schmidt (US Pub. No. 2004/0203867) discloses a localization of a mobile end user unit by monitoring a geographical area.

Nowak et al. (US Pub. No. 2002/0193121) discloses a location information management system and method for mobile communication unit.

Elliott et al. (US Patent No. 6,438,376) discloses a wireless communication management and control system using mobile station position and movement information.

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Armbruster et al. (US Patent 6,070,065) discloses a cell-based emergency call systems and methods.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas T. La whose telephone number is (571)-272-8075. The examiner can normally be reached on Mon-Fri 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571)-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Examiner:

02/03/2006

SONNYTRINH PRIMARY EXAMINER